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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,460	07/18/2001	Lynn B. Lunsford	08191-014002	1198
26161 7590 11/06/2008 FISH & RICHARDSON PC P.O. BOX 1022			EXAMINER	
			MARVICH, MARIA	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1633	•
			NOTIFICATION DATE	DELIVERY MODE
			11/06/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

## Application No. Applicant(s) 09/909 460 LUNSFORD ET AL. Office Action Summary Examiner Art Unit MARIA B. MARVICH 1633 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 July 2008. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.4.52.63-69 and 85-113 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1, 4, 52, 63-69 and 85-113 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 18 October 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner, Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some \* c) ☐ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Amformation disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/12/08.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

51 Notice of Informal Patent Application.

#### DETAILED ACTION

Claims 1, 4, 52, 63-69 and 85-112 are pending in the application. This office action is in response to an amendment filed 7/7/08.

In this response applicants have argued that the cited references do not constitute prior art as the instant application claims priority to PCT/US98/01499, filed Jamuary 22, 1998. It is noted that the claim of priority is 09/909460, tiled 7/18/01 which claims priority to 09/321,346 filed 5/27/1999 which is a continuation in part of 09/266,463, filed 3/11/1999, which is a continuation in part of 09/003, 253 filed 1/6/98 which claims priority to 60/035,983 filed 1/22/97 and PCT/U598/01499 filed 1/22/98. In the office action mailed 11/22/05, it was set forth that support for the limitation that a microparticle comprises in addition to a polymeric matrix and a nucleic and, a limid is not found in the priority documents 09/003,253 filed 1/6/1998, 60/035.983, filed 1/22/1997 or PCT/US98/01499 filed 1/22/1998. These applications are drawn to microparticles commusing golymeric nutrices and nucleic acids. While these applications consider use of lipids as stabilizers present in excipients or formulations, the applications do not contemplate a microparticle comprising a lipid. This limitation has been added to prior applications 09/266,463, fited 3/11/1999. Therefore, a priority date of 3/11/1999 will be attributed to the instant claims. In response, applicants did not provide any evidence that an earlier priority date was supported and hence the art rejections set froth below are based upon a priority date of the claims of 3/11/1999.

It is also noted that applicants have amended claims 1 and 52 to rectic that the polymeric matrix "consists essentially of one or more synthetic polymers having a solubility in water of less then about 1 mg/T. According to the MPEP (2105), "A consisting essentially of claim occupies Deleted: 1-5, 7-22, 24, 26, 27, 29-36, 51-58 and 62-84 are pending. Claims 17, 22, 24, 27 and 29-32 have been withdrawn. Therefore, claims 1-5, 7-17, 18-21, 26, 33-36 and 51-84

a middle ground between closed claims that are written in a consisting of "format and fully open claims that are dralied in a comprising" format."" For the purposes of searchine for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and povel characteristics actually are "consisting essentially of" will be construed as equivalent to "comprising." See, e.g., PPG, 156 E.3d at 1355, 48 USPQ2d at 1355". In this case, claims 60 and 96 dependent from claims 1 and 52 recite. The polymeric matrix comprises a symilatic, biodegradable copolymer" obviousing the option that "consisting essentially of" can be construed as "closed".

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## Claim Objections

Claims \$5.90 are objected to because of the following informalities: Claim \$5.500 are objected to because of the following informalities: Claim \$5.500 are the word—of—prior to the phrase "and compressing a sequence identical" does not indicate that it is the at least 7 amino acids that are identical.

Therefore, it would be remedial to recite—that are identical—.

Claim 35 is drawn to interoparticles comprising a coding sequence wherein the coding sequence encodes an expression product of at least 7 amino acids in lengths. Each of claim 86 flutther limits claim 85 by recitation "scheroin the expression product comprises a fragment of a protein scleened". It appears that the fragment in claim 86 and the 7 amino acid sequence are the same which for clarify should be amended to recite—wherein the protein is selected—in claim 86. Otherwise, it appears that there are two fragments in claim 86.

Similarly claims 87, 89 and 90 recite, "wherein the expression product comprises an nuino acid sequence identical to a sequence", which also appears to be further modifying the Deleted: , 8, 14, 16 and 51

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expression product as appeared to be introducing a second fragment into the expression product.

As such, it would be clearer to recite in claim 87, —wherein the expression product is selected from the group consisting of—in claim 89 to —wherein the expression product if from an antigenic portion of a tumor antigen—and in claim 90 to "wherein the infectious agent is selected from the group consisting of—.

Claim 88 requires the word "further" prior to "comprises a trafficking sequence" for clarity.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A pattern may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, 52, 63-69 and 85-113 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hedley et al (US Patent 5,783,507; see entire document) in view of Lambert et al (Biochimie, 1998, Vol 80, pages 969-976; see entire document) or Balland et al (NATO ASI Series, 1996, Vol 290, pages 131-142; see entire document) in view of Knepp et al (US 6,264,990; see entire document). This is a new rejection accessitated by applicants' agreedment.

Deleted: Claim 14 recites "consisting of at least" in line 2, however, use of the closed term "consisting of" with "at least" which implies open language of comprising more than certain elements and amounts is not consistent. Either the claim should be amended to delete "at least" or to substitute "consisting of" with --comprising--. ¶ When referring to previously recited limitations it is customary to reference these limitations using either -- the-- or said--. In claim 16, "a peptide" should be amended to -- the peptide -- . In claim 51, "a target site" and "a mammal" should similarly be amended for clarity of

## antecedent bas Deleted: is

**Deleted:** This is okay for them to say, they are linking length and function of binding instead of some other variation in the sequence.¶

Deleted: 1-4, 7-10, 18, 33, 34, 52-55, 62, 65-67, 70, 71, 74-76 and 81-83 "The instant claims are drawn to a <u>micro particle</u> less than 20 microns in diameter comprising a polymeric matrix, a lipid and a nucleic acid, <u>wherein the polymeric matrix has a solubility in water of at less them 1 mag/and wherein at least 50% if the nucleic acids are supercollect.</u>

Hedley et al teach a microparticle as well as preparations of microparticles wherein the microparticles comprise a polymeric matrix and a nucleic acid expression vector. The polymeric matrix includes one or more synthetic polymera having a solubility of less then 1 org I that end be brodegradable. In certain cases, the polymeric nestrix can be made of a single synthetic. biodegradable conglymer, e.g., poly-factic co-glycolic acid (PLGA). The ratio of factic acid to giveolic acid in the copolymer can be within the range of about 1:2 to about 4:1 by weight, preferably within the range of about 1:1 to about 2:1 by weight, and most preferably about 65:35 by weight, in some cases, the polymene matrix also melades a targeting molecule such as a ligand, receptor, or antibody, to increase the specificity of the nucroparticle for a given cell type or tissue type. The nucroparticles are at least 11 microns and the nucleic acid at least 80% supercoiled (see e.g. col 1-2). The nucleic acid include an expression control sequence operatively linked to an expression predict encoding at least 7 and no acids having a sequence essentially identical to the sequence of either a fragment of a naturally-occurring mammalian protein or a fragment of a naturally-occurring protein from an agent which infects or otherwise barns a manual; or a peptide having a length and sequence which penult it to bind to an MHC class I or II molecule (col 2, line 21-36).

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col 2, paragraph 2) comprising a polymeric matrix, a lipid and a nucleic acid (see e.g. page 970, col 1, paragraph 4- col 2, paragraph 3) and preparations of these microparticles (see e.g. table 1). Balland et al teach a microparticle less than 20 microns in diameter (see e.g. page 132, paragraph 4) comprising a polymeric matrix, a lipid and a nucleic acid (see e.g. page 132, paragraph 4-5) and preparations of these microparticles (see e.g. page 133, paragraph 4), As an initial point, KSR forecloses the argument that a specific teaching, suggestion or motivation is required to support a finding of obviousness. See the recent Board decision Expante Smith - USPD2d-.., slip on, at 20, (BD. Pat, App. & Interfer, June 25, 2007). In this case each of Hendley et al. Lambert et al and Balland et al teach design of microparticles that are less then 20 microns, as well as 11 microns. Each teaches that complexes of polymeric matrices and nucleic acids can be used to delivery the nucleic acids to cells. Headiev et al teach that the polymeric matrix is preferably one that has a solubility of less then I mad as in the recited claures. Specifically, Headley et al teach use of PLGA. Balland and Lambert et al do not explicitly teach that the polymers have a solubility of less then how/L however, these references do teach that it was known in the art to include lipids in the preparation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the lipid which the tions as an ion pairing agent with the phosphate groups of the nucleic soids (see e.g. Lambert et al page 270, col 2 and figure 1). Based upon the teachings of the cited references, the high skill of one of ordinary skill in the art, and absent evidence to the contrary, there would have been a reasonable expectation of success to result in the claimed invention.

Lambert et al teach a microparticle less than 20 microps in diameter (see e.g. page 972.

Deleted: as recited in claims 1, 7 and 52. Lambert et al teach antisense oligonucleotides associated with nanoparticles and the cationic lipid cetyltrimethylammonium (CTAB), (see e.g. page 970, col 2, paragraph 3) as recited in claims 53-55. The particles are resuspended in medium (see table 1). which is a pharmaceutically acceptable carrier as recited in claim 70. The muclaic acid is an aligamuclantida as recited in claim 75. The polymeric matrix is polyisobutylevanoacrylate (see e.g. bridging paragraph col 1-2, page 970), which is a synthetic biodegradable copolymer as evidenced by Balland et al (see e.g. page 131, paragraph 1) as recited in claims 65 and 66

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Dolotod: The linid is cetyltrimethylammonium (CTAB) and is cationic (see e.g. page 131, paragraph 2) as recited in claims 53-55. The particles are resuspended in PBS (see page 133, paragraph 4), which can be a pharmaceutically acceptable carrier as recited in claim 70. The nucleic acid is an oligonucleotide as recited in claim 75. The polymeric matrix is polyisohexylcyanoacrylate (PIHCA), which is a synthetic biodegradable copolymer (see e.g. page 131, paragraph 1 and page 132, paragraph 4) as recited in claims 65 and 66. Balland et al teach that the nucleic acid was protected against enzymatic degradation (see table 1) and uptake by cells was dramatically increased (figure 2) by complex formation with CTAB

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Deleted: Neither Lumbert et al nor Balland et al reach a composition, in particular that a microparticle further comprises a carbodydrate. I hope the comprises a carbodydrate. I hope the comprises a carbodydrate of the comprises and carbodydrate of the carbodydrate such as accross that function as protecting agents (see e.g., col 8, line 14-22 and col 10, line 27-36). Knopp or all teach that lipid mucleic acid comprises faithful mucleic acid of the comprises faithful mucleic acid o

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Deleted: Knepp et al in the microparticles taught by Lambert et al or Balland et al because Knepp et al teach that it is within the ordinary skill of the art to use carbothyrates in a nucleic acid delivery particle comprising lipids and nucleic acid and because Balland [...[2]]

Claims 1, 4, 52, 63-69, 85, 86 and 88-113 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paphadjopolous et al (US 6,210,707; see entire document) in view of Cleck stal (1 Biomed, Materials Res. 1997, pages 525-530; see entire document) as evidenced by Manobarna et al (2005/0153337; see entire document). This is a new rejection necessitated by applicants' amendment.

Papahadjopolous et al teach a lipidic microparticle comprising lipids and nucleic acids (see e.g. abstract) and polymeric matrices (see e.g. col 3, line 50-67). The invention is designed to provide lipid: nucleic acid complexes that have increased shelf life, for transfection of mammalian (see e.g. col 18, line 50-53). The lipidic-microparticles can be made with amphiphilic cationic lipids complexed with nucleic acids and polymer (see e.g. col 7, line 16-29). The microparticles can be part of a preparation and are each less than 11 microns (see e.g. col 8.line 34-41 and col 18. line 29-47) as recited in claims 1, 7, 52 and 64. The nucleic acid can be part of an expression cassette that is disclosed as being expression vectors or plasmids, which are circular, expressing polypeptides (see e.g. col 8, line 21-26, col 11, line 41-51). The expression cassettes encode polypeptides such as globin, which comprise at least 7 amino acids identical to at least a fragment of a naturally occurring mammalian protein. The microparticles further comprise a targeting moiety (see e.g. abstract). The targeting moiety can be attached to the microparticle during production or can be expressed by the nucleic acid of the microparticle. Paphadjopolous specifically describes peptides that bind MHC molecules. The instant specification describes proteinaceous antigenic determinants as containing an epitope, which limitation is met by the use of ligands on the microparticle. Thus a microparticle with such a

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Deleted: Knepp et al (US 6,264,990; see entire document)

Deleted: cells in vitro or in vivo or ex vivo

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Deleted: The lipids of the microparticle can be amphiphilic eationic lipids such as phospholipids (see e.g. col 6, line 41-51) and the microparticles and hence the preparations of microparticles are also associated with a second lipid or neutral helper lipid (see e.g. col 3, line 31-50) as recited in claim 9, 11, 13, 53, 54, 56 and 58

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Deleted: The targeting moleties are immunogenic peptides as recited in claims 18 and 21 such as ligands, growth factors or cytokines (see e.g. col 7, line 4-16, col 15, line 31-52) and

Deleted: targeting moleties that recognize MHC complexes (i.e. MHC I) (see e.g. col 15, line 23-col 16, line 11).

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targeting moiety and a nucleic acid encoding an antigenic polypeptide such as hGH (see e.g. col

19, line 32-37). Furthermore, it is contemplated that the <u>inicroparticle encodes</u> a trafficking
signal (see e.g. col 12, line 4-12).

Paphadjopolous does not teach that the polymeric matrix is PLGA wherein the ratio of lactic acid to glycolic acid is in a range of 1:2 to about 4:1 or about 65:35 by weight. <u>Applicants' disc bears appears to surgest that PLGA is a polymer that meets the claims requirements of a synthetic polymer with a solubility if less then I med in water.</u>

Cleek et al teach use of microparticles for inhibition of smooth muscle cell growth. The microparticles are comprised of nucleic acid and PLGA, one of the few synthetic biodegradable polymers approved for human clinical use (see e.g. page 525, col 2, paragraph 2). PLGA degradation in vivo occurs by random non-enzymatic hydrolysis of the polyester bonds along the polymeric backbone at a rate dependent on the copolymer ratio. As they are hydrolyzed to lactic acid and glycolic acid, they are processed normally by the metabolic pathway and eliminated as carbon dioxide (see e.g. page 525, col 2, paragraph 2). The biodegradable PLGA particles were formed in a 1:1 ratio which is in the range of 1:2 to 4:1 and is about 65:35 ratio given that the term "about" is a relative term for which the specification provides no definition. The PLGA served as effective delivery agents (see e.g. page 529, col 2, paragraph 4). While Cleek et al do not teach that the ratio of lactic acid to glycolic acid is "by weight", classically synthesis of PLGA from lactic acid and glycolic acid involves a combination of the monomers "by weight" as evidenced by Manoharan et al (see e.g. paragraph 0873).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the PLGA particles as taught by Cleek et al in the lipid microparticles taught by

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Deleted: Paphadjopoleus further contemplate administration of the contemplate administration of the therapy in which the microparticle is administred in an effective amount at a target sites such as the circulatory system (see e.g. ol 4, line 51-66 and col 8, line 64-67, as retied in claim 51. Specifically, Paphadjopolous deserbe argoing the microparticles to immane agreging the microparticles to immane strength of the contemplate of the contempl

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oligonucleotide (see e.g. col 19, line 10-31) as recited in claim 74, 75 and 76

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preparation of particles and is in a pharmacoutically acceptable carrier (see e.g. col 8, line 34-41) as recited in claim 33 and 70. The polymer can be spermine, a biodegradable polymer (see e.g. col 3, line 54-52) as recited in claim 65.

Deleted: Paphadiopolous do not teach inclusion of a carbohydrate i.e. sucrose in the particle. The teachings of Knepp et al are reviewed above 9 It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the carbohydrate or sucrose as taught by Knepp et al in the microparticles taught by Paphadjopolous because Knepp et al teach that it is within the ordinary skill of the art to use carbohydrates in a nucleic acid delivery particle comprising lipids and nucleic acid and because Paphadiopolous teaches that it is within the ordinary skill of the art to deliver nucleic acids as part of microparticles that comprise polymeric matrices and linids. One would have been motivated to add carbohydrate to the microparticles for their protective properties. Knepp et al demonstrates an attempt to use known techniques to improve similar nicroparticles as Paphadjopolo skill that was available at the time of filing with well-established methods on well-characterized systems. Based upon the teachings of the cited references, the high skill of one of ordinary skill in the art, and absent evidence to the contrary. there would have been a reasonable expectation of success to result in the

Claims 12, 57 and 77-80 are rejected under 35 U.S.C. 103(a) as being ....[3]

claimed invention.

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Paphadjopolous et al because Cleek et al teach that it is within the ordinary skill in the art to use PLGA to deliver nucleic acids to cells and because Paphadjopolous et al teach that it is within the ordinary skill of the art to complex synthetic polymers, i.e. PLGA, to nucleic acid for stable delivery to cells. One would have been motivated to do so in order to receive the expected benefit that the microparticles comprised of PLGA are among the few synthetic biodegradable polymers approved for human clinical use because they are hydrolyzed to lactic acid and glycolic acid, they are processed normally by the metabolic pathway and climinated as carbon dioxide and they serve as effective delivery agents (see Cleek et al, page 525, col 2, paragraph 2 and page 529, col 2, paragraph 4). Based upon the teachings of the cited references, the high skill of one of ordinary skill in the art, and absent evidence to the contrary, there would have been a reasonable expectation of success to result in the claimed invention.

#### Conclusion

#### Canclusion

Applicant's snormanest necessitated the new ground(s) of receition presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP 3,766.07(a), Applicant is reminded of the extension of time policy as set forth in 37 CFR 1,136(a).

A abortened statutory period for reply to this final action is set to expire THREE MONTHS from the median date of this action. In the event a final reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTH shortened statutory period, then the shertened statutory period.

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Based upon a reconsideration of the art the previous new rejections have been made.

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no eyeal, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARIA B. MARVICH whose telephone number is (571)272-0774. The examiner can normally be reached on M-F (7:00-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach, PhD can be reached on (571)-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Maria B Marvich, PhD Primary Examiner Art Unit 1633

/Mana B Maryich, PhD/ Primary Examiner, Art Unit 1633